

Name: _____

Date: _____ Per: _____

Fractions Study Guide

1. In what order should $\frac{4}{5}, \frac{7}{9}, \frac{1}{6}, \frac{11}{12}$ be listed to be arranged by increasing size?

Know	Need to Know	My answer should be (circle one):	My answer should represent (circle one)
$\frac{4}{5}, \frac{7}{9}, \frac{1}{6}, \frac{11}{12}$	Order from smallest to largest	number word list	number(s) angle distance

$$\frac{1}{6}, \frac{7}{9}, \frac{4}{5}, \frac{11}{12}$$

Skill needed: Order fractions

2. In what order should $\frac{2}{7}, \frac{1}{3}, \frac{3}{4}, \frac{4}{9}$ be listed to be arranged by increasing size?

Know	Need to Know	My answer should be (circle one):	My answer should represent (circle one)
$\frac{2}{7}, \frac{1}{3}, \frac{3}{4}, \frac{4}{9}$	Order from smallest to largest	number word list	number(s) angle distance

$$\frac{2}{7}, \frac{1}{3}, \frac{4}{9}, \frac{3}{4}$$

Skill needed: Order Fractions

3. In what order should $\frac{3}{7}, \frac{4}{9}, \frac{4}{5}, \frac{5}{8}$ be listed to be arranged by increasing size?

Know	Need to Know	My answer should be (circle one):	My answer should represent (circle one)
$\frac{3}{7}, \frac{4}{9}, \frac{4}{5}, \frac{5}{8}$	Order from smallest to largest	number word list	number(s) angle distance

$$\frac{3}{7}, \frac{4}{9}, \frac{5}{8}, \frac{4}{5}$$

Skill needed: Order Fractions

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Date: _____ Per: _____

Fractions Study Guide

4. What is the least common denominator for adding the fractions $\frac{4}{45}, \frac{2}{6}, \frac{8}{15}$?

Know	Need to Know	My answer should be (circle one):	My answer should represent (circle one)
Denominators: 45, 6, 15	LCM of 45, 6, 15	number word list	number(s) angle distance

90

Skill needed: Find the LCM

5. What is the greatest common factor of the following numbers: 6, 15, 45?

Know	Need to Know	My answer should be (circle one):	My answer should represent (circle one)
6, 15, 45	GCF of 6, 15, 45	number word list	number(s) angle distance

3

Skill needed: Find GCF

6. What is the least common multiple of the following numbers 12, 15, 30?

Know	Need to Know	My answer should be (circle one):	My answer should represent (circle one)
12, 15, 30	LCM of 12, 15, 30	number word list	number(s) angle distance

60

Skill needed: Find the LCM

Name: _____

Date: _____ Per: _____

Fractions Study Guide

7. When $\frac{1}{3}k + \frac{1}{4}k = 1$, what is the value of k ?

Know	Need to Know	My answer should be (circle one):	My answer should represent (circle one)
$\frac{1}{3}k + \frac{1}{4}k = 1$	Add fractions, isolate k .	number word list	number(s) angle distance

$$k = \frac{12}{7}$$

Skill needed: Add/Subtract Fractions

8. When $\frac{1}{2}r + \frac{1}{3}r = 1$, what is the value of r ?

Know	Need to Know	My answer should be (circle one):	My answer should represent (circle one)
$\frac{1}{2}r + \frac{1}{3}r = 1$	Add fractions, isolate r	number word list	number(s) angle distance

$$r = \frac{6}{5}$$

Skill needed: Add/Subtract Fractions

9. When $\frac{3}{4}m + \frac{2}{5}m = 1$, what is the value of m ?

Know	Need to Know	My answer should be (circle one):	My answer should represent (circle one)
$\frac{3}{4}m + \frac{2}{5}m = 1$	Add fractions, isolate m	number word list	number(s) angle distance

$$m = \frac{20}{23}$$

Skill needed: Add/Subtract Fractions

Name: _____

Date: _____ Per: _____

Fractions Study Guide

10. What rational number is halfway between $\frac{1}{5}$ and $\frac{1}{3}$?

Know	Need to Know	My answer should be (circle one):	My answer should represent (circle one)
$\frac{1}{5}, \frac{1}{3}$	Average of $\frac{1}{5}$ & $\frac{1}{3}$	number word list	number(s) angle distance

$$\frac{4}{15}$$

Skill needed: Add/subtract fractions

11. What rational number is halfway $\frac{4}{5}$ between and $\frac{4}{7}$?

Know	Need to Know	My answer should be (circle one):	My answer should represent (circle one)
$\frac{1}{5}, \frac{1}{3}$	Average of $\frac{1}{5}$ & $\frac{1}{3}$	number word list	number(s) angle distance

$$\frac{24}{35}$$

Skill needed: Add/subtract Fractions.

Name: _____

Date: _____ Per: _____

Fractions Study Guide

12. A work crew paints a yellow line down the middle of a straight road $16\frac{1}{9}$ miles long over the course of 3 days. On day 1, the crew records $5\frac{8}{27}$ miles of road painted. On day 2, the crew records $3\frac{2}{3}$ miles of road painted. According to the measurements given, how many miles of road did the crew paint on day ~~2~~³?

Know	Need to Know	My answer should be (circle one):	My answer should represent (circle one)
Total: $16\frac{1}{9}$ R1: $5\frac{8}{27}$	Distance by on Day 3	<u>number</u> word list	number(s) angle <u>distance</u>

$$R2: 3\frac{2}{3}$$

$$7\frac{4}{27}$$

Skill needed: Add/Subt Mixed Numbers

13. 3 friends decide to do a relay run together. As a team, they must run a total of $8\frac{1}{2}$ miles. The first friend runs for $2\frac{3}{4}$ miles. The second one runs for $2\frac{5}{8}$ miles. How many miles must the third runner run in order for them to finish the relay race?

Know	Need to Know	My answer should be (circle one):	My answer should represent (circle one)
Tot: $8\frac{1}{2}$ R1: $2\frac{3}{4}$	Distance by runner 3	<u>number</u> word list	number(s) angle <u>distance</u>

$$R2: 2\frac{5}{8}$$

$$3\frac{1}{8}$$

Skill needed: Add/Subt Mixed Numbers

Name: _____

Date: _____ Per: _____

Fractions Study Guide

14. Add the following fractions $\frac{x}{6} + \frac{y}{9} =$

Know	Need to Know	My answer should be (circle one):	My answer should represent (circle one)
$\frac{x}{6} + \frac{y}{9}$	What does it simplify to?	number word list	number(s) angle distance

$$\frac{3x+2y}{18}$$

Skill needed: Add/Subtract fractions

15. If $\frac{A}{30} + \frac{B}{105} = \frac{7A+2B}{x}$ and A, B, and x are integers greater than 1, then what must x equal?

Know	Need to Know	My answer should be (circle one):	My answer should represent (circle one)
$\frac{A}{30} + \frac{B}{105} = \frac{7A+2B}{x}$	What does the left side simplify to, and how does it compare to the right?	number word list	number(s) angle distance

210

Skill needed: Add/subtract fractions

Skills Needed:

Find the LCM

Find the GCF

Order fractions

Add/subtract fractions

Add/subtract mixed numbers